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NOTICE OF ALLOWANCE AND FEE(S) DUE

24374 7590 0330/2009
VOLPE AND KOENIG, P.C.
DEPT. ICC
UNITED PLAZA, SUITE 1600
30 SOUTH 17TH STREET

PHILADELPHIA, PA 19103

EXAMINER
SAM, PHIRIN
ART UNIT PAPER NUMBER
2419

DATE MAILED: 03/30/2009

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. | | | |
|--|-------------|----------------------|---------------------|------------------|--|--|--|
| 10/774,860 | 02/09/2004 | James A. Proctor JR. | TAN-2-1523.02.US | 9494 | | | |
| TITLE OF INVENTION: METHOD OF DETECTION OF SIGNALS USING AN ADAPTIVE ANTENNA IN A PEER-TO-PEER NETWORK | | | | | | | |

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 06/30/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

| INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notifical | form should be used to correspondence including d below or directed off tions | or trans ig the P ierwise | smitting the ISSU atent, advance or in Block 1, by (a | JE FEE and PUBLIC, rders and notification (a) specifying a new co | of m | ON FEE (if requi aintenance fees w condence address; | red). E ill be and/or | Hocks 1 through 5 st mailed to the current (b) indicating a sepa | nould b corresp rate "F | ne completed where condence address as EE ADDRESS" for |
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| VOLPE AND DEPT. ICC UNITED PLAZ | A, SUITE 1600 | /2009 | | , | l ben | Cer eby certify that th | tificate | of Mailing or Trans: Transmittal is being ficient postage for first SUE FEE address [1] 273-2885, on the d | mission | 1 ited with the United |
| 30 SOUTH 17TI PHILADELPHI | | | | | | | | | | (Depositor's name) |
| | , | | | | | | | | | (Signature) |
| | | | | Į | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | | FIRST NAMED INVENT | OR | | ATTO | RNEY DOCKET NO. | CON | FIRMATION NO. |
| 10/774,860 | 02/09/2004 | • | | James A. Proctor JR | ٤. | | TA | N-2-1523.02.US | | 9494 |
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| EXAM | INER | ì | ART UNIT | CLASS-SUBCLASS | | | | | | |
| SAM, P | | | 2419 | 370-334000 | | | | | | |
| "Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A | ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach ND RESIDENCE DAT. ess an assignce is ident h in 37 CFR 3.11. Comp | nge of C " Indica ed. Use | Correspondence tion form of a Customer E PRINTED ON 3 | | p to nativingle or a attor be p type e pa | 3 registered paten ely, firm (having as a gent) and the name neys or agents. If or orinted. | memb es of up no nam | er a 2 | | at has been filed for |
| | are submitted: | | 41 | o. Payment of Fee(s): (I A check is enclose Payment by credit | Pleas ed. | se first reapply ar | y prev | ched. | shown | above) |
| Advance Order - # | f of Copies | | | The Director is her overpayment, to D | eby epos | authorized to char it Account Numbe | ge the r | required fee(s), any de (enclose a | ficiency n extra | y, or credit any copy of this form). |
| | s SMALL ENTITY state | is. See 3 | 37 CFR 1.27. | ☐ b. Applicant is no | | | | | | |
| NOTE: The Issue Fee and interest as shown by the | d Publication Fee (if req ecords of the United Sta | uired) w tes Pate | rill not be accepted nt and Trademark | d from anyone other the Office. | an th | e applicant; a regi | stered a | ittorney or agent; or th | e assig | nee or other party in |
| Authorized Signature | | | | | | Date | | | | |
| Typed or printed name | | | | | | Registration N | o | | | |
| This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223 | ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu irginia 22313-1450. DC 13-1450. | FR 1.31 U.S.C. USPTO rden, sh O NOT S | 11. The informatic 122 and 37 CFR 12. Time will vary ould be sent to the SEND FEES OR (| on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS | or re esti idivi ficei S TO | etain a benefit by the mated to take 12 r dual case. Any co r, U.S. Patent and THIS ADDRESS | he publ ninutes mment Traden . SENI | ic which is to file (and to complete, includin s on the amount of tin hark Office, U.S. Depo O TO: Commissioner | by the g gathe ne you artment for Pate | USPTO to process) ring, preparing, and require to complete of Commerce, P.O. ents, P.O. Box 1450, |

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| 24374 | 7590 03/30/2009 | | EXAMINER | | | | |
| VOLPE AND K | LPE AND KOENIG, P.C. | | | | | | |
| DEPT. ICC | | | ART UNIT | PAPER NUMBER | | | |
| | UNITED PLAZA, SUITE 1600 30 SOUTH 17TH STREET DATE MAILED: 03/02/2009 | | | | | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 664 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 664 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/774 860 PROCTOR, JAMES A. Notice of Allowability Examiner Art Unit PHIRIN SAM 2419 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 03/02/2009. 2. The allowed claim(s) is/are 17-30. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some* c) \subseteq \text{None of the:} 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 03/02/09 8. X Examiner's Statement of Reasons for Allowance 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material Other .

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DETAILED ACTION

Introduction

Claims 1-16 have been canceled.

Claims 17-30 have been added.

Claims 17-30 are presently pending in this application.

Allowable Subject Matter

The following is an examiner's statement of reasons for allowance:

Regarding claims 17-30, the prior arts do not disclose the directional antenna configured to suppress the transmission of an acknowledgement message when the message is correctly received, wherein the suppression of the acknowledgement message forces a retransmission of the message; the directional antenna configured to suppress the transmission of an acknowledge message and receive further retransmissions of the message at new directional angles until a desired received signal quality of the message is achieved.

Conclusion

- 2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- US Patent 7,266,085 (Stine) discloses access and routing protocol for ad hoc network using synchronous collision resolution and node state dissemination.

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(2) US Patent 7,043,262 (Nageli) discloses two-way pager and communicating preset messages

over the global system for mobile communications (gsm/gprs) network.

(3) US 2002/0132579 (Hart et al.) discloses multi-beam tdma satellite mobile communications.

4. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to PHIRIN SAM whose telephone number is (571)272-3082. The

examiner can normally be reached on Increased Flexitime Policy (IFP) Program.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jay Patel can be reached on (571) 272 - 2988. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Respectfully submitted,

Date: March 24, 2009

By: /Phirin Sam/ Phirin Sam Primary Examiner

Art Unit 2419